

## MATERIAL SAFETY DATA SHEET -18-

## Product Name:

HERCULES DRAIN PIPE CLEANER

DATE PREPARED 06/18/86 DATE ISSUED 09/10/99

## ISSUED TO

FERGUSON THRALL DISTRIBUTION  
4250 MCFARLAND RD

LOVES PARK

IL 61111-4406

## SECTION 1



HERCULES®

**MATERIAL  
SAFETY  
INFORMATION  
SERVICE**

Hercules Chemical Company, Inc.

111 South Street • Passaic, NJ 07055-7398

Information Phone 800-221-9330

## SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED (Dust)	% (OPTIONAL)
Sodium Hydroxide (Cas. No. 1310-73-2)	2mg/m3	2mg/m3		

HMIS Hazard Rating: 2 0 2 E

## SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (For caustic soda) 1390 deg. C	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) 2.1	VAPOR DENSITY (AIR = 1) N/A
VAPOR PRESSURE (mm Hg) N/A	MELTING POINT 306 deg.C to 318 deg.C	EVAPORATION RATE (Butyl Acetate = 1) N/A

SOLUBILITY IN WATER Soluble

APPEARANCE AND COLOR White crystals with gray-metal granules; no odor.

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT None	FLAMMABLE LIMITS N/A	LEL N/A	UEL N/A
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EXTINGUISHING MEDIA Non-combustible. Choose extinguishing media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES As appropriate for surrounding fires. Use NIOSH/MSHA approved self contained breathing apparatus where the material is involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS Not a flammable material. However, material will react violently with water, liberating heat and causing splashing. Contact with some metals, particularly magnesium, aluminum and zinc (galvanized), can rapidly generate hydrogen gas which is explosive.

## SECTION 5 - REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
STABLE	NONE

INCOMPATIBILITY (MATERIALS TO AVOID) Aluminum, tin, lead, zinc, and their alloys and all acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS Reaction with various food sugars may form carbon monoxide.

HAZARDOUS POLYMERIZATION Caustic soda and trichloroethylene are especially hazardous since they react to form spontaneously flammable dichloroacetylene.

## SECTION 6 - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY	INHALATION?	SKIN?	INGESTION?
	Yes/Primary	Yes/Primary	Yes/Secondary

## HEALTH HAZARDS (ACUTE AND CHRONIC)

Caustic Soda is a corrosive material. Sodium Hydroxide: Acute oral LD 50=140-340 mg/kg (Rat) Acute Dermal LD50=1.35 gm/kg (Rabbit)

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED?
	NO	NO	NO

**SIGNS AND SYMPTOMS OF EXPOSURE**

**INHALATION** - Airborne concentrations of dust, mist, or spray of caustic soda may cause damage to the upper respiratory tract and even to the lung tissue proper which could produce chemical pneumonia, depending upon severity of (CONTINUED IN SECTION "A" AT BOTTOM OF PAGE)

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

See SIGNS AND SYMPTOMS OF EXPOSURE section starting above and continued below.

**EMERGENCY AND FIRST AID PROCEDURES**

**EYES:** Object is to flush material out immediately then seek medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface.  
(CONTINUED IN SECTION "B" AT BOTTOM OF PAGE)

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Get complete protective equipment, shovel spilled material into steel containers, flush with ample water, rinse with dilute acid, preferably acetic acid and finally with water.

**WASTE DISPOSAL METHOD**

Dissolve and/or flush to holding area for pH adjustment and dilute for discharging to sewer/stream. Large qty: Follow Federal, State & Local regulations

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store in a cool dry place. Keep separate from acids, metal explosives, organic peroxides and easily ignitable materials.

**OTHER PRECAUTIONS**

Wear complete protective equipment in handling the product in large quantities.

**SECTION 8 - CONTROL MEASURES****RESPIRATORY PROTECTION (SPECIFY TYPE)**

None normally required. If large quantities are handled & dust problem exists, then dust-type respirator is required.

**VENTILATION****LOCAL EXHAUST**

As required to control dust or mist.

SPECIAL N/A

**MECHANICAL (GENERAL)**

N/A

OTHER N/A

**PROTECTIVE CLOTHING**

Rubber, neoprene or vinyl

**EYE PROTECTION**

Chemical safety goggles plus face shield where appropriate.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

N/A

**WORK/HYGIENIC PRACTICES**

Wash thoroughly after handling.

-- SECTION "A"-- exposure **SKIN CONTACT** Caustic soda is destructive to tissues contacted and produces severe burns. **EYE CONTACT** Caustic soda is destructive to eye tissues on contact will cause severe burns that result in damage to the eyes and even blindness. **INGESTION** Caustic soda, if swallowed, can cause severe burns and complete perforation of mucous membranes of the mouth, throat, esophagus and stomach. **ACUTE OVEREXPOSURE** Corrosive to all body tissues with which it comes in contact. **CHRONIC OVEREXPOSURE** The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and increased susceptibility to respiratory illness.

-- SECTION "B"-- Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention. **SKIN** Wash contaminated skin with plenty of water. Remove contaminated clothing and footwear and wash footwear before reuse. Discard footwear which cannot be decontaminated. Seek Medical attention immediately. **INHALATION** Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately. **INGESTION** Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting. Give large quantities of water if available, give several glasses of milk. If vomiting occurs spontaneously, keep airways clear. Seek medical attention immediately.